

**Amendments to the Claims:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) Light source supplied by ultra high frequency, comprising an emitter (4) which, by means of at least one antenna (3), creates an ultra high-frequency electromagnetic wave in a sealed chamber (1) having a wall transparent to light and containing a gas at low pressure, the source comprising magnetic means designed to create a static magnetic field inside the chamber (1), the respective values of the static magnetic field and of the frequency of the electromagnetic wave being predetermined in such a way as to cause an electron cyclotron resonance inside the chamber, source ~~characterized in that~~wherein the magnetic means are formed by at least one permanent magnet (2) substantially enveloped by the chamber (1) and ~~that~~wherein the emitter (4), the antenna (3) and the magnet (2) are disposed with respect to the chamber (1) in such a way as to free a solid angle of at least  $2\pi$  steradians for the light.

2. (Currently Amended) Light source according to claim 1, ~~characterized in~~wherein the antenna (3) is arranged inside the chamber (1).

3. (Currently Amended) Light source according to ~~one of the claims 1 and 2~~claim 1, ~~characterized in that~~wherein the magnet (2) constitutes the antenna (3).

4. (Currently Amended) Light source according to ~~any one of the claims 1 to 3~~claim 1, ~~characterized in that~~wherein the magnet (2) is arranged inside the chamber (1).

5. (Currently Amended) Light source according to ~~any one of the claims 1 to 3~~claim 1, ~~characterized in that~~wherein the magnet (2) is arranged outside the chamber (1).

6. (Currently Amended) Light source according to claim 5, ~~characterized in~~wherein the chamber (1) comprises an external housing (7) for the magnet (2).

7. (Currently Amended) Light source according to claim 1, ~~characterized in that~~wherein the magnet (2) and the antenna (3) penetrate into the chamber (1) in hermetically sealed manner.

8. (Currently Amended) Light source according to ~~any one of the claims 1 to 7~~claim 1, ~~characterized in that~~wherein the chamber (1) comprises a fluorescent coating (6) transforming an ultraviolet radiation into a visible radiation.

9. (Currently Amended) Light source according to ~~any one of the claims 1 to 8~~claim 1, ~~characterized in that~~wherein the chamber (1) comprises a transparent conducting coating (9).

10. (Currently Amended) Light source according to ~~any one of the claims 1 to 9~~claim 1, ~~characterized in that~~wherein the source comprises a fine protective meshing (8) protecting against ultra high-frequency radiation.

11. (Currently Amended) Light source according to ~~any one of the claims 1 to 10~~claim 1, ~~characterized in that~~wherein the chamber (1) has a shape chosen from among tubular, hollow cylindrical and oval shapes.